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DERWENT-ACC-NO: 1994-198496
DERWENT-WEEK: 199424

TITLE: Components prodn. from profiled metal sections - where flange of blank is subjected to annealing by laser beam over whole thickness

INVENTOR: MAKAROV, K A; SELEZNEV, V V ; TARAEV, S P

PRIORITY-DATA: 1990SU-4857525 (August 6, 1990)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 1806884 A1	April 7, 1993		003	B21D007/00

INT-CL (IPC): B21D 7/00

ABSTRACTED-PUB-NO: SU 1806884A
BASIC-ABSTRACT:

The profile comprising a flange and at least one wall of thermally strengthened material is obtained by creating an unevenness of distribution of the properties of the material around the section of the profile by thermal treatment of the flange and subsequent bending.

The distribution unevenness is created by annealing the flange of the blank over its whole thickness by a laser beam which is moved perpendicularly to the line of bend. The specific power of radiation is 50Vt/mm2, and the speed of movement of the laser in relation to the blank is 4mm/second.

USE - Used in plastic working of metals, in particular, bending.

ADVANTAGE - Technological scope of the process is broadened.

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